

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**

**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

4/27/13

OPERATOR: License # 5259  
Name: Mai Oil Operations, Inc.  
Address 1: P.O. Box 33  
Address 2: \_\_\_\_\_  
City: Russell State: Ks. Zip: 67665 +  
Contact Person: Allen Bangert  
Phone: (785) 483-2169  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: Kitt Noah  
Purchaser: NCRA

**KCC**  
**APR 27 2011**  
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Designate Type of Completion:

- New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

02/15/2011    02/23/2011    02/23/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 167-23688-0000  
Spot Description: 105' South & 20' West  
NW\_NW\_SE\_SE Sec. 14 Twp. 12 S. R. 15  East  West  
1,000 Feet from  North /  South Line of Section  
1,125 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Russell  
Lease Name: Haberer "A" Well #: 2  
Field Name: Elsasser  
Producing Formation: Lansing  
Elevation: Ground: 1630' Kelly Bushing: 1638'  
Total Depth: 3152' Plug Back Total Depth: 3129'  
Amount of Surface Pipe Set and Cemented at: 693' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 52000 ppm Fluid volume: 160 bbls  
Dewatering method used: Hauled Offsite  
Location of fluid disposal if hauled offsite:  
Operator Name: Mai Oil Operations, Inc.  
Lease Name: Haberer Unit License #: 5259  
Quarter NE Sec. 14 Twp. 12 S. R. 15  East  West  
County: Russell Permit #: D-30042

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Allen Bangert  
Title: Prod. Supt. Date: 04/26/2011

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: 4/27/11 - 4/27/13  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: KCC WICHITA

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Operator Name: Mai Oil Operations, Inc. Lease Name: Haberer "A" Well #: 2  
 Sec. 14 Twp. 12 S. R. 15  East  West County: Russell

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving fluid tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample
Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name Top Datum
Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite 696' +942
Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka 2528' -890
Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>	Heebner 2747' -1109
List All E. Logs Run: <b>CNFD, DIL, Micro</b>	Toronto 2766' -1128
	Lansing 2798 -1160
	Base Kansas City 3051' -1413
	Arbuckle 3074' -1436

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	693'	60-40 POZ	350	2% Gel, 3% CC
Production	7 7/8"	5 1/2"	14#	3150	60-40 POZ	200	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	3096-3102'	60-40 POZ	35 sks	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
3	3013-17', 2986-90', 2840-44', 2825-29', 2804-08'	1250 gal. 20%NE HCL, 5000 gal. 20% CRANE	
3	2531-36'	250 gal. 20% NE, 1000gal. 20% CRA NE	

TUBING RECORD:	Size: <u>2 7/8"</u>	Set At: <u>3125'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>03/17/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u>	Gas Mcf	Water Bbls. <u>70</u>	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>2531-3017' O.A.</u> <b>RECEIVED</b>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

APR 27 2011  
KCC WICHITA

# QUALITY OILWELL CEMENTING, INC.

KCC

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

APR 27 2011 No. 4770

Date	3-9-11	Sec.	Twp.	Range	County	State	CONFIDENTIAL On Location	Finish	12:30 PM
Lease	Haberer	Well No.	A-2		Location Canyon N to W, W to fault batteries				
Contractor	Rapid Well Service				Owner West side, N to Well				
Type Job	Squeeze				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Hole Size	T.D.				Charge To				
Csg.	5 1/2"				Main oil operations				
Tbg. Size	2 7/8"				Street				
Tool	Depth				City				
Cement Left in Csg.	Shoe Joint				State				
Meas Line	Displace 17.63 BLS				The above was done to satisfaction and supervision of owner agent or contractor.				
					Cement Amount Ordered 50 ss 60/40				

**EQUIPMENT**

Pumptrk	1	No.	Cement Helper	Neale	Common	30
Bulktrk	8	No.	Driver	Doug	Poz. Mix	20
Bulktrk p.u.		No.	Driver	Rick	Gel.	

**JOB SERVICES & REMARKS**

Remarks:	Perfs. 3096' - 3102'	Calcium
Rat Hole		Hulls
Mouse Hole		Salt
Centralizers		Flowseal
Baskets		Kol-Seal
D/V or Port Collar		Mud CLR 48
Injection Rate of 2 BPM at 8000#		CFL-117 or CD110 CAF 38 7# FL-110
Pressure backside to 500#		Sand
Mix 25 ss 60/40 with CFL-110 +		Handling
mix another 25 ss 60/40, displaced		Mileage
with 15 3/4 BLS - pressured to 2000#		<b>FLOAT EQUIPMENT</b>
Released + reversed out. Wash thru		Guide Shoe
with 25ts. Lay down 25ts		Centralizer
Repressure to 2000#, Released		Baskets
+ wash up - Rigged down		AFU Inserts
		Float Shoe
		Latch Down

Pumptrk Charge	Squeez Arb	Tax
Mileage	10	Discount
		Charge

X Signature *[Handwritten Signature]*

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KCC WICHITA

# ALLIED CEMENTING CO., LLC. 034113

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

KCC  
APR 27 2011

SERVICE POINT:  
Russell Ks.

CONFIDENTIAL

DATE <u>2-23-2011</u>	SEC. <u>14</u>	TWP. <u>12</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 PM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>HABERER</u>		WELL # <u>A-2</u>	LOCATION <u>Russell Ks. 10 N ON CANYON RD</u>		COUNTY <u>Russell</u>	STATE <u>KANSAS</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>TO MAILARD RD, Jct. 1/4 West 1/4 North</u>				

CONTRACTOR SOUTH WIND DATA. Rig # 3

TYPE OF JOB PRODUCTION STAINING

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 New DEPTH 3150

TUBING SIZE 14# CSG. DEPTH

DRILL PIPE DEPTH

TOOL LATCH DOWN PLUG ASSY DEPTH 3129'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 20.96

CEMENT LEFT IN CSG. 20.96

PERFS.

DISPLACEMENT 76.35 / BBL

OWNER

CEMENT

AMOUNT ORDERED 200 SK 60% 100'S ALT

2% Gel 1/4# F10-Seal PER SK.

1000 GAL WFR-2 MUD FLUSH

COMMON	<u>120</u>	@	<u>13.50</u>	<u>1620.00</u>
POZMIX	<u>80</u>	@	<u>7.55</u>	<u>604.00</u>
GEL	<u>4</u>	@	<u>20.25</u>	<u>81.00</u>
CHLORIDE		@		
ASC		@		
<u>Salt</u>	<u>8</u>	@	<u>21.25</u>	<u>170.00</u>
<u>Flo Seal</u>	<u>50</u>	@	<u>2.45</u>	<u>122.50</u>
<u>WFR-2</u>	<u>1000 gal</u>	@	<u>1.10</u>	<u>N-C</u>
		@		
		@		
		@		
		@		
HANDLING	<u>200</u>	@	<u>2.25</u>	<u>450.00</u>
MILEAGE	<u>110 SK/mile</u>			<u>300.00</u>
TOTAL				<u>3347.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn - Heath

# 409 HELPER Woody

BULK TRUCK

# 378 DRIVER Nick

BULK TRUCK

# DRIVER

REMARKS:

Ran 76 JTS New 14# CSG. Set @ 3150

Circulate 1 Hr on Bottom. Mix mud Flush

Cement w/ 170 SK 60% Clear-line, Release

Plug, & Displace 76.35 BBL H2O, LAND

LATCH DOWN PLUG @ 1500 #, Released Pressure

& Plug (HELD)

30 SK Cement @ Rathole

THANK'S

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1957.00

EXTRA FOOTAGE @

MILEAGE 10 @ 7.00 70.00

MANIFOLD @

RECEIVED @

CHARGE TO: MAT OIL OPERATIONS, Inc.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

APR 27 2011

TOTAL 2025.00

KCC WICHITA

PLUG & FLOAT EQUIPMENT

Float Shoe 214.00

LATCH DOWN PLUG ASSY @ 164.00

12-TURBO-CENTRALIZERS @ 42.00 504.00

@

@

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment

# PIPE TALLY

*Mai Oil*

Date *2/15/11*

**Midwestern Pipe**  
 Hays, KS 67601  
 785-625-4670  
 Company  
*Haberer #2*

Lease

	Size		New	Used	Limited Service	Weight		Grade	Type	Range
	Feet	In.				Feet	In.			
	<i>8 5/8</i>					<i>23</i>				<i>23</i>
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	
Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
1	<i>43</i>	<i>20</i>								
2	<i>1</i>	<i>5</i>								
3	<i>1</i>	<i>10</i>								
4	<i>1</i>	<i>20</i>								
5	<i>1</i>	<i>-</i>								
6	<i>42</i>	<i>90</i>								
7	<i>43</i>	<i>10</i>								
8	<i>1</i>	<i>20</i>								
9	<i>1</i>	<i>-</i>								
10	<i>42</i>	<i>90</i>								
11	<i>43</i>	<i>30</i>								
12	<i>1</i>	<i>15</i>								
13	<i>1</i>	<i>05</i>								
14	<i>1</i>	<i>-</i>								
15	<i>1</i>	<i>05</i>								
16	<i>42</i>	<i>75</i>								
17	<i>42</i>	<i>75</i>								
18										
19										
20										
Total										

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*17* (circled)

Subtotal this page

Total Number of Joints

*731.80* GRAND TOTAL

Tallied By  
*Mac McCraw*  
 Received In Good Order By

Casing Head & Accessories  Other

Limited Service and/or Used Materials are sold "as is, without warranty either expressed or implied."

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4755

Date	2-16-11	Sec.	14	Twp.	12	Range	15	County	Russell	State	Ks	On Location		Finish	6:30 PM
Lease	Haberer "A"		Well No.	# 2		Location	8 on Canyon Rd to A.E., N into								
Contractor	Southwind #3					Owner	on W side of tanks, W + N to Rig								
Type Job	Surface					To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4"		T.D.	697'		Charge To	Main oil operations								
Csg.	8 5/8"		Depth	693'		Street									
Tbg. Size			Depth			City	State								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	42.54'		Shoe Joint	42.54'		Cement Amount Ordered	350 sx 60/40 3%CC 2%Grel								
Meas Line			Displace	BLS											

### EQUIPMENT

Pumptrk	1	No.	Cementer	Deale	Common	210
Bulktrk	10	No.	Driver	Cisco	Poz. Mix	140
Bulktrk	p.u.	No.	Driver	Rick	Gel.	6

### JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.		Calcium	13
Rat Hole			Hulls	
Mouse Hole			Salt	
Centralizers			Flowseal	
Baskets			Kol-Seal	
D/V or Port Collar	Haberer #2		Mud CLR 48	
			CFL-117 or CD110 CAF 38	
			Sand	
			Handling	369
			Mileage	

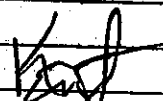
### FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1- Ballie plate
	1- Rubber plug
Pumptrk Charge	Long Surface
Mileage	0

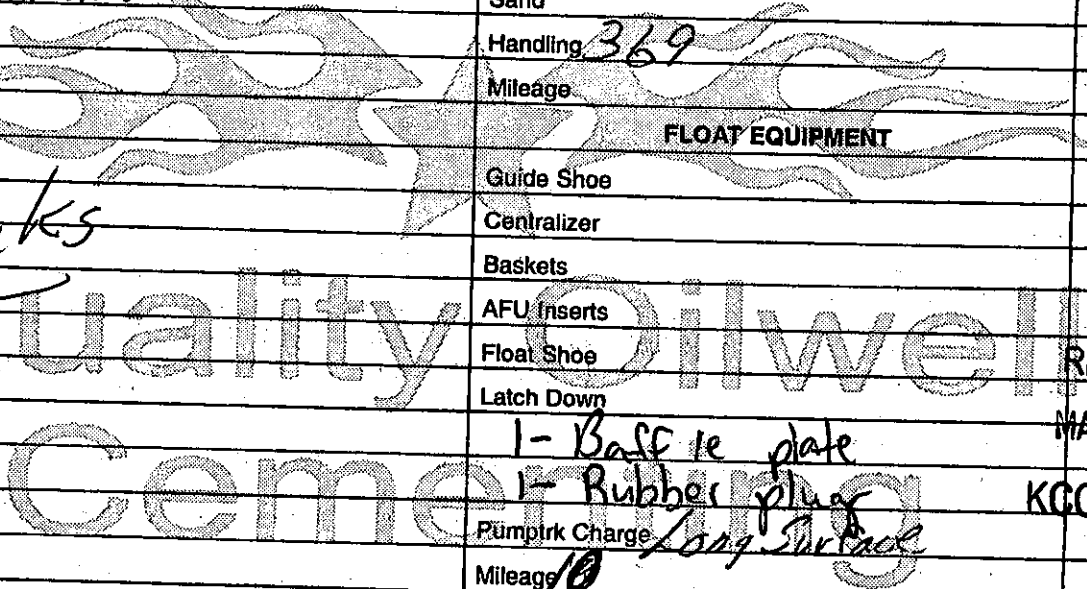
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X Signature 

Tax  
Discount  
Total Charge



# ALLIED CEMENTING CO., LLC. 034113

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell Ks.

DATE <u>2-23-2011</u>	SEC. <u>14</u>	TWP. <u>12</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 PM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>HABERER</u> WELL # <u>A-2</u>		LOCATION <u>Russell Ks. 10 N ON Canyon RD</u>			COUNTY <u>Russell</u>	STATE <u>KANSAS</u>	
OLD OR <u>(NEW)</u> (Circle one)		TO MAILARD RD, Jct. <u>1/4 West 1/4 North</u>					

CONTRACTOR Southwind Data Rig # 3  
 TYPE OF JOB Production Staining  
 HOLE SIZE 7 7/8 T.D.  
 CASING SIZE 5 1/2 New DEPTH 3150  
 TUBING SIZE 14# CSG. DEPTH  
 DRILL PIPE DEPTH  
 TOOL LATCH Down Plug Assy DEPTH 3129'  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 20.96  
 CEMENT LEFT IN CSG. 20.96  
 PERFS.  
 DISPLACEMENT 76.35 / BBL

OWNER  
 CEMENT  
 AMOUNT ORDERED 200 sk 60% 100's ALT  
28 Gel 1/4# Flo-Seal Per SK.  
1000 GAL WFR-2 mud flush

COMMON	<u>120</u>	@	<u>13.50</u>	<u>1620.00</u>
POZMIX	<u>80</u>	@	<u>7.55</u>	<u>604.00</u>
GEL	<u>4</u>	@	<u>20.25</u>	<u>81.00</u>
CHLORIDE		@		
ASC		@		
<u>Salt</u>	<u>8</u>	@	<u>21.25</u>	<u>170.00</u>
<u>Flo Seal</u>	<u>50</u>	@	<u>2.45</u>	<u>122.50</u>
<u>WFR-2</u>	<u>1000 gel</u>	@	<u>1.10</u>	<u>N-C</u>
		@		
		@		
		@		
		@		
HANDLING	<u>200</u>	@	<u>2.25</u>	<u>450.00</u>
MILEAGE	<u>110 sk/mile</u>			<u>300.00</u>
				TOTAL <u>3347.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn - Heath  
 # 409 HELPER Woody  
 BULK TRUCK  
 # 378 DRIVER Nick  
 BULK TRUCK  
 # DRIVER

REMARKS:

Ran 76 JT's New 14# CSG. Set @ 3150  
Circulate 1 hr on bottom, mix mud flush  
Cement w/ 170 sk 60% Clear-Line, Release  
Plug, & Displace 76.35 BBL H2O, LAND  
LATCH Down Plug @ 1500 #, Release Pressure  
& Plug (HELD)  
30 sk Cement @ Rathole

THANKS

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1957.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>10</u>	@	<u>200</u>
MANIFOLD		@	
<b>RECEIVED</b>			
MAY 10 2011			
			TOTAL <u>2025.00</u>

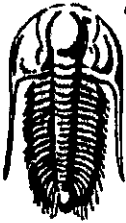
KCC WICHITA

CHARGE TO: MAI OIL OPERATIONS, Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>Float Shoe</u>			<u>214.00</u>
<u>LATCH Down Plug Assy</u>	@		<u>164.00</u>
<u>12-TURBO-CENTRALIZERS</u>	@	<u>42.00</u>	<u>504.00</u>
	@		
	@		

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc.  
8411 Preston Rd  
Suite 800  
Dallas, TX 75225  
ATTN: Kitt Noah

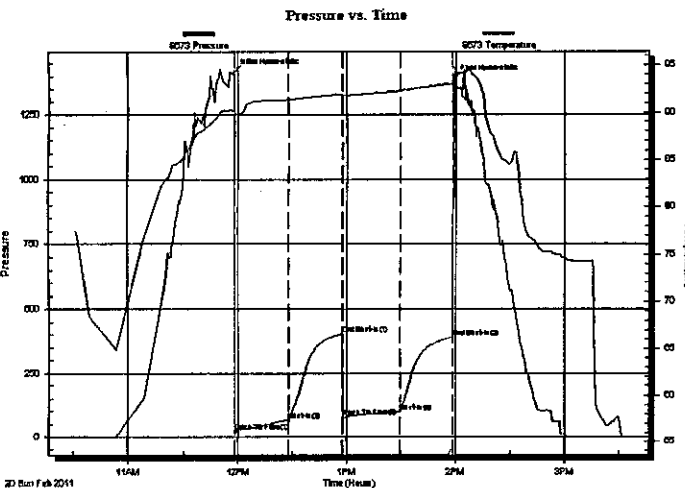
Haberer A #2  
14-12s15w Russell KS  
Job Ticket: 41707      DST#: 1  
Test Start: 2011.02.20 @ 10:31:33

**GENERAL INFORMATION:**

Formation: **A-C**  
Deviated: **No Whipstock:                      ft (KB)**  
Time Tool Opened: **11:58:33**  
Time Test Ended: **15:31:33**  
Test Type: **Conventional Bottom Hole**  
Tester: **Jason McLemore**  
Unit No: **54**  
Interval: **2802.00 ft (KB) To 2844.00 ft (KB) (TVD)**  
Reference Elevations: **1638.00 ft (KB)**  
**1630.00 ft (CF)**  
Total Depth: **2844.00 ft (KB) (TVD)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**  
KB to GR/CF: **8.00 ft**

**Serial #: 8673      Inside**  
Press@RunDepth: **98.52 psig @ 2839.00 ft (KB)**  
Capacity: **8000.00 psig**  
Start Date: **2011.02.20**      End Date: **2011.02.20**  
Last Calib.: **2011.02.20**  
Start Time: **10:31:35**      End Time: **15:31:33**  
Time On Btm: **2011.02.20 @ 11:58:18**  
Time Off Btm: **2011.02.20 @ 13:59:03**

**TEST COMMENT:** IFF-Strong,BOB in 2 Mn.  
ISI-Blow back Built to 1-1/2"  
FFP-Sttrong,BOB in 1-1/2 Min.  
FSI-Blow back Built to 2-1/2"



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1414.90	90.14	Initial Hydro-static
1	24.13	89.61	Open To Flow (1)
30	64.77	91.33	Shut-In(1)
60	404.21	91.91	End Shut-In(1)
60	77.61	91.80	Open To Flow (2)
92	98.52	92.27	Shut-In(2)
121	390.41	93.03	End Shut-In(2)
121	1387.64	93.56	Final Hydro-static

**Recovery**

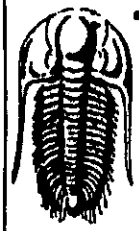
Length (ft)	Description	Volume (bbl)
180.00	Frothy/Muddy Watery Oil-45%G-30%O-	12.52-15
25.00	Mud W/Oil Scum	0.35
0.00	1655' GIP	0.00

**Gas Rates**

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

**RECEIVED**  
**APR 27 2011**  
**KCC WICHITA**





# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Mai Oil Operations Inc.

Haberer A #2

8411 Preston Rd  
Suite 800  
Dallas, TX 75225  
ATTN: Kitt Noah

14-12s15w Russell KS

Job Ticket: 41708

DST#: 2

Test Start: 2011.02.20 @ 23:23:45

### GENERAL INFORMATION:

Formation: E-F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:22:00

Time Test Ended: 04:45:15

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 2860.00 ft (KB) To 2890.00 ft (KB) (TVD)

Total Depth: 2890.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1638.00 ft (KB)

1630.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8673

Inside

Press@RunDepth: 19.05 psig @ 2862.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.20

End Date: 2011.02.21

Last Calib.: 2011.02.21

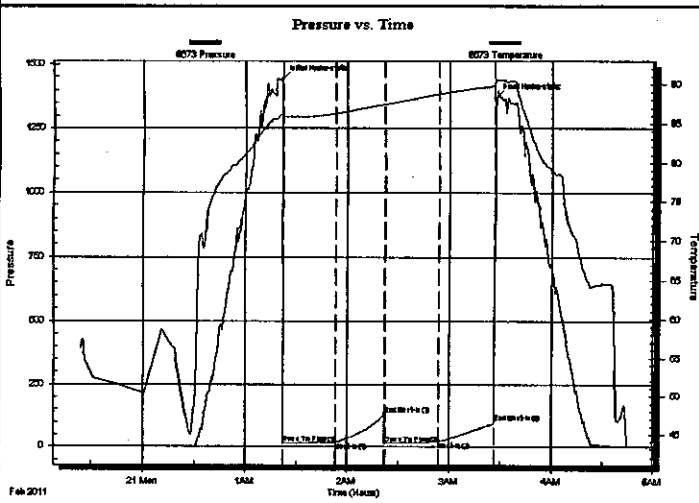
Start Time: 23:23:47

End Time: 04:45:15

Time On Btm: 2011.02.21 @ 01:21:45

Time Off Btm: 2011.02.21 @ 03:27:00

TEST COMMENT: IFF-Weak,Built to 2-1/4"  
ISI-Dead  
FFP-Weak,Built to 1-1/2"  
FSI-Dead



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1438.93	86.12	Initial Hydro-static
1	15.00	85.26	Open To Flow (1)
32	15.60	86.27	Shut-In(1)
60	127.25	87.44	End Shut-In(1)
61	14.88	87.44	Open To Flow (2)
92	19.05	88.73	Shut-In(2)
125	97.51	89.76	End Shut-In(2)
126	1367.55	90.65	Final Hydro-static

### Recovery

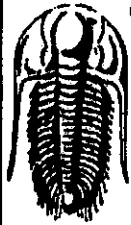
Length (ft)	Description	Volume (bbl)
20.00	OCM-10%O-90%M	0.28

### Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

KCC

APR 27 2011



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc.  
8411 Preston Rd  
Suite 800  
Dallas, TX 75225  
ATTN: Kitt Noah

Haberer A #2  
14-12s15w Russell KS  
Job Ticket: 41709 DST#: 3  
Test Start: 2011.02.21 @ 21:39:00

**CONFIDENTIAL**

**GENERAL INFORMATION:**

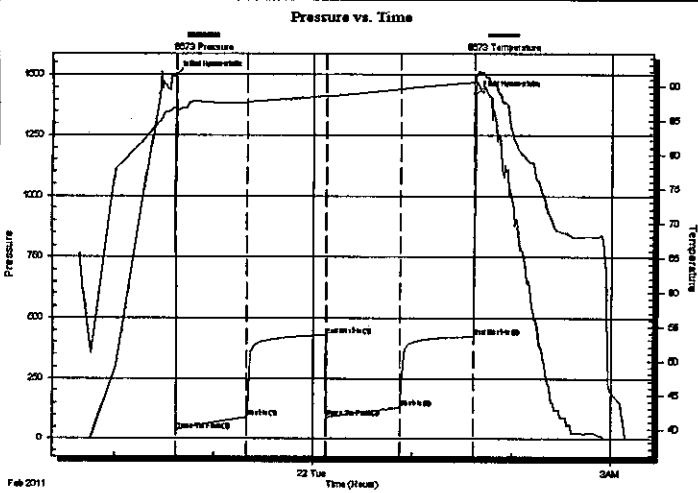
Formation: I-J-K  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:37:00  
Time Test Ended: 03:09:00  
Test Type: Conventional Bottom Hole  
Tester: Jason McLemore  
Unit No: 54  
Interval: 2950.00 ft (KB) To 3020.00 ft (KB) (TVD)  
Reference Elevations: 1638.00 ft (KB)  
Total Depth: 3020.00 ft (KB) (TVD)  
1630.00 ft (CF)  
Hole Diameter: 7.80 inches Hole Condition: Good  
KB'to GR/CF: 8.00 ft

**Serial #: 8673**

Inside

Press@RunDepth: 130.39 psig @ 2987.00 ft (KB)  
Capacity: 8000.00 psig  
Start Date: 2011.02.21 End Date: 2011.02.22  
Last Calib.: 2011.02.22  
Start Time: 21:39:02 End Time: 03:09:00  
Time On Btm: 2011.02.21 @ 22:36:45  
Time Off Btm: 2011.02.22 @ 01:37:30

**TEST COMMENT:** IFF-Good Blow ,BOB in 22 Min.  
ISI-Dead  
FFF-Good Blow ,BOB in 33 Min.  
FSI-Dead



**PRESSURE SUMMARY**

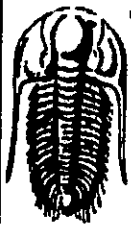
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1497.57	86.79	Initial Hydro-static
1	34.11	86.24	Open To Flow (1)
43	86.36	87.56	Shut-In(1)
91	429.44	88.60	End Shut-In(1)
92	88.54	88.51	Open To Flow (2)
136	130.39	89.53	Shut-In(2)
181	425.24	90.54	End Shut-In(2)
181	1419.19	91.04	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
210.00	Muddy Water-85%W-15%M	2.95

**Gas Rates**

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**KCC**  
**APR 27 2011**  
**CONFIDENTIAL**

Mai Oil Operations Inc.

Haberer A #2

8411 Preston Rd  
Suite 800  
Dallas, TX 75225  
ATTN: Kitt Noah

14-12s15w Russell KS  
Job Ticket: 41710 DST#: 4  
Test Start: 2011.02.22 @ 13:49:05

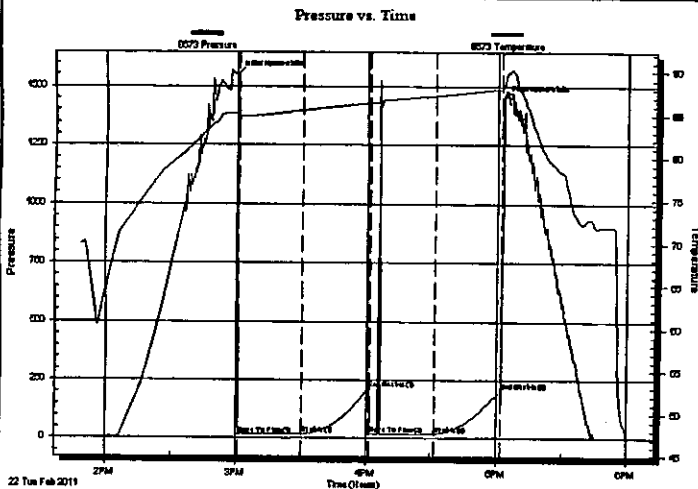
**GENERAL INFORMATION:**

Formation: **Arbuckle**  
Deviated: **No Whipstock:** ft (KB)  
Time Tool Opened: 15:00:35  
Time Test Ended: 18:00:35  
Interval: **3050.00 ft (KB) To 3095.00 ft (KB) (TVD)**  
Total Depth: **3095.00 ft (KB) (TVD)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**  
Tester: **Jason McLemore**  
Unit No: **54**  
Reference Elevations: **1638.00 ft (KB)**  
**1630.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 8673** Inside  
Press@RunDepth: **18.51 psig @ 3087.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2011.02.22** End Date: **2011.02.22** Last Calib.: **2011.02.22**  
Start Time: **13:49:07** End Time: **18:00:35** Time On Btm: **2011.02.22 @ 15:00:05**  
Time Off Btm: **2011.02.22 @ 17:02:50**

**TEST COMMENT:** IFP-Intermittant Surface Blow  
ISI-Dead  
FFP-Weak Surface Blow, Flush Tool, Died in 15 Min.  
FSI-Dead



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.51	85.21	Initial Hydro-static
1	15.31	84.27	Open To Flow (1)
31	17.14	85.52	Shut-In(1)
62	213.87	86.40	End Shut-In(1)
62	16.87	86.31	Open To Flow (2)
92	18.51	87.23	Shut-In(2)
122	204.69	88.06	End Shut-In(2)
123	1448.05	88.71	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
6.00	Mud W/Oil Specks	0.08

**Gas Rates**

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)